Figure 1

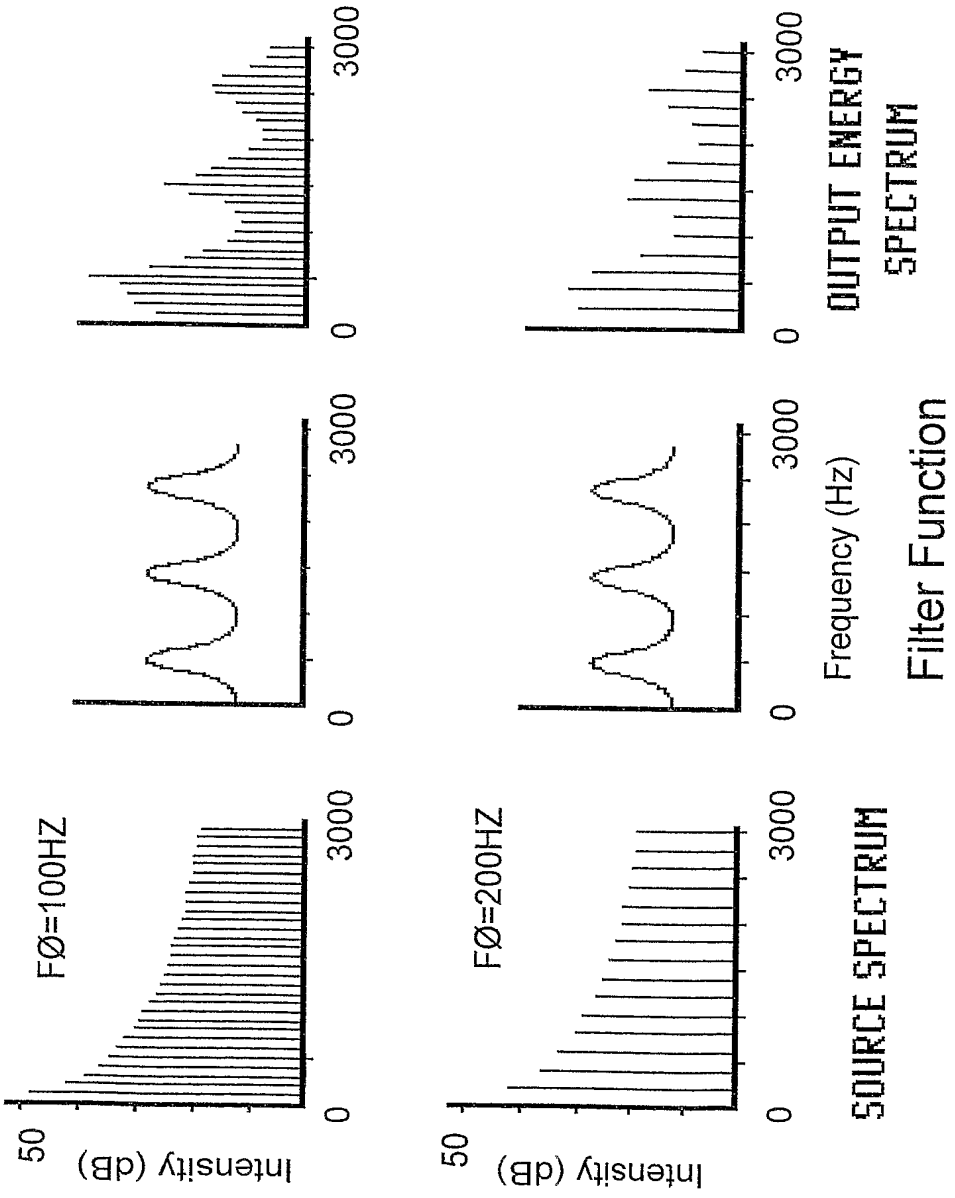

FØ=100HZ
FØ=200HZ
Intensity (dB)
50
0
3000
Frequency (Hz)
SOURCE SPECTRUM
Filter Function
OUTPUT ENERGY SPECTRUM

Figure 2

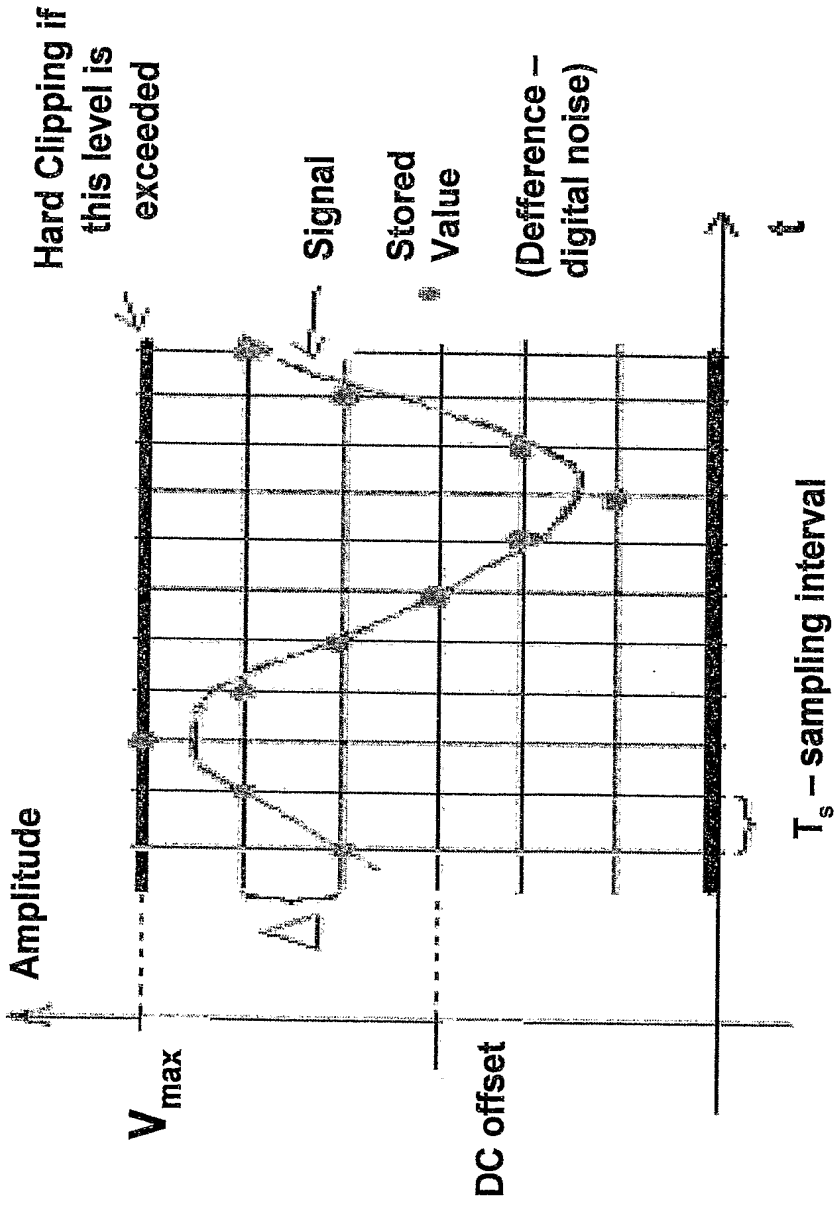
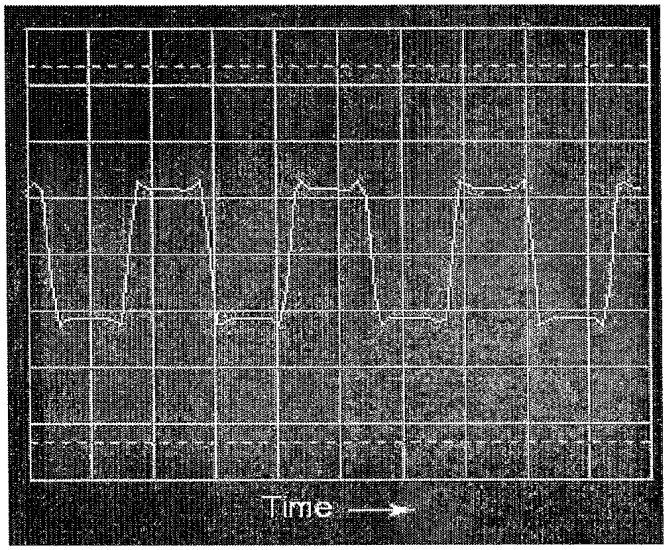

Hard Clipping if this level is exceeded
Signal
Stored Value
(Defference – digital noise)
t
Amplitude
T_s – sampling interval
V_{max}
DC offset

Figure 3



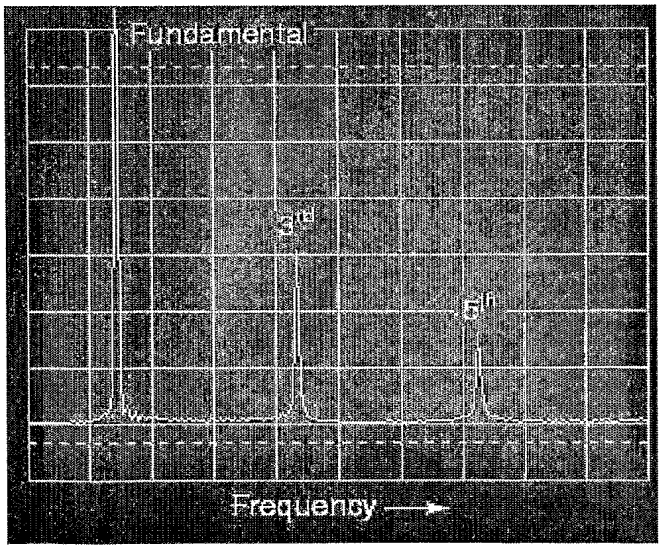
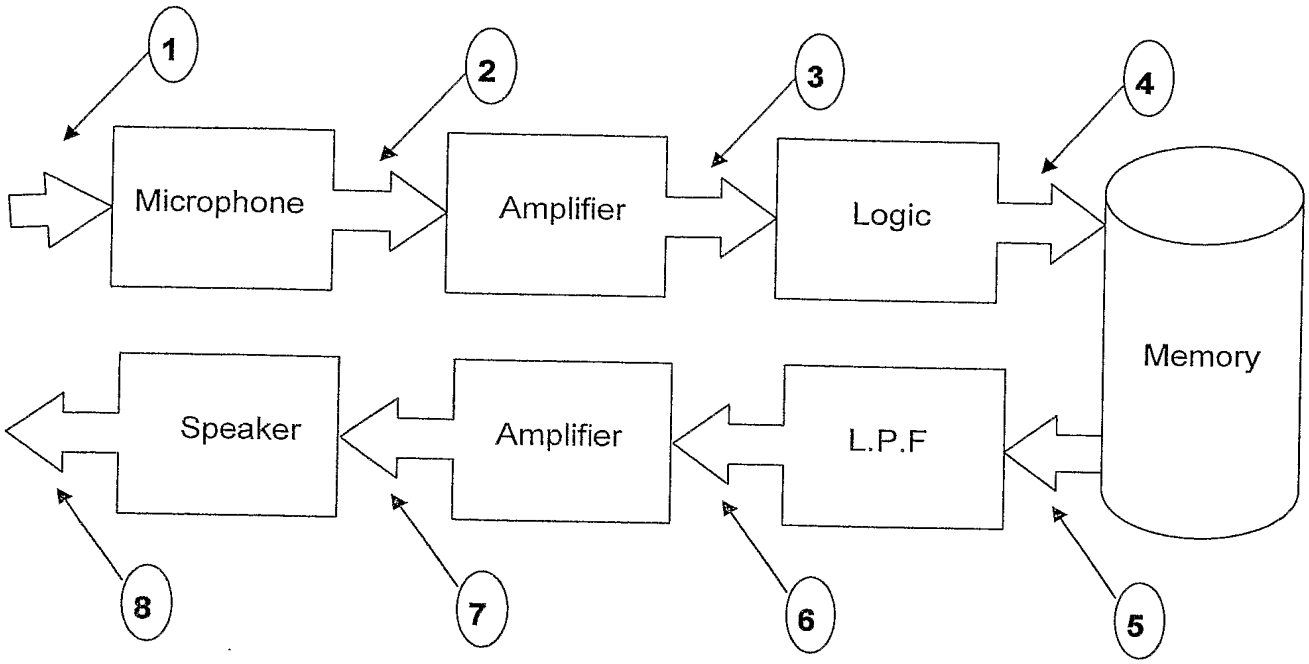


Figure 4


1
2
3
4
Microphone
Amplifier
Logic
Memory
Speaker
Amplifier
L.P.F
8
7
6
5